



SHEET 1 OF 1

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
201514US2PCTSERIAL NO.
09/720,260

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT
Yukihiko OKUMURA, et al.FILING DATE
February 26, 2001GROUP
2661 2662

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|------------------|----|-----------------|----------|-----------------------|----------|-----------|----------------------------|
| DL | AA | 5,463,641 | 10/31/95 | S. M. DORWARD, et al. | | | |
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FOREIGN PATENT DOCUMENTS

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| | AO | 9-22789 | 01/28/97 | JAPAN (with corr. US 5,463,641) | | X |
| DL | AP | WO 98/51028 | 11/12/98 | WIPO (with corr. JP 2000-514277) | — | — |
| DL | AO | 2000-514277 | 10/24/2000 | JAPAN | — | X |
| DL | AR | 9-298519 | 11/18/97 | JAPAN (submitting English translation only) | | |
| DL | AS | 11-196072 | 07/21/99 | JAPAN (submitting corr. EP 0 928 116 only) | | |
| DL | AT | 0 928 116 | 07/07/99 | EUROPE | | |
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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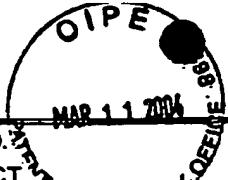
Examiner D. LEVITANDate Considered 04/12/04

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SHEET 1 OF 1

| Form PTO 1449 (Modified) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | PRIORITY DOCKET NO. 201514US2PCT | | SERIAL NO. 09/720,260 | |
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| LIST OF REFERENCES CITED BY APPLICANT | | | | APPLICANT Yukihiko OKUMURA, et al. | | RECEIVED FEB 26 2003 Technology Center 2600 | |
| | | | | FILING DATE February 26, 2001 | GROUP 266Z | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
| <i>PL</i> | AW | FPLMTS Study Committee, Air-interface WG, SWG2, Document number: AIF/SWG2-17-13, Nokia, vol. 3, pages 1-8, "SERVICE MULTIPLEXING AND RATE MATCHING", August 4, 1998 | | | | | |
| | AX | | | | | | |
| | AY | | | | | | |
| | AZ | | | | | <input type="checkbox"/> Additional References sheet(s) attached | |
| Examiner <i>D. LEVITAN</i> | | | | Date Considered <i>04/02/04</i> | | | |
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| Form PTO 1448 (Modified) | U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY DOCKET NO. 201514US90PCT | SERIAL NO. 09/720,260 |
| LIST OF REFERENCES CITED BY APPLICANT | | | |
| APPLICANT Yukihiko OKUMURA, et al. | | | |
| FILING DATE February 26, 2001 | | GROUP 2601 2662 | |

U. S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|------------------|-----------------|------------|----------------------|-------|-----------|----------------------------|
| DL | AA 5,745,582 | 04/28/1998 | Y. SHIMPUKU, et. al. | | | |
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Examiner D. LEVITAN Date Considered 04/12/04

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| LIST OF REFERENCES CITED BY APPLICANT <i>O I P E</i> SEP 05 2003 P A T E N T & T R A D E M A R K O F F I C E | | APPLICANT Yukihiko OKUMURA, et al. | | | |
| | | FILING DATE February 26, 2001 | GROUP 266T 2662 | | |
| U.S. PATENT DOCUMENTS | | | | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO | |
| PL | AI WO 98/47253 | 10/22/98 | WIPO (with English Abstract) | | X |
| PL | AJ 0 715 440 | 06/05/96 | EUROPE | | |
| PL | AK WO 97/14235 | 04/17/97 | WIPO | | |
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| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | |
| PL | AP | 3GPP: TS 25.212 Version 1.0.0, Internet Article, XP-002245691, pages 1-38, "3 rd GENERATION PARTNERSHIP PROJECT (3GPP); TECHNICAL SPECIFICATION GROUP (TSG); RADIO ACCESS NETWORK (RAN); WORKING GROUP 1 (WG1); MULTIPLEXING AND CHANNEL CODING (FDD)", April 1999 | | | |
| PL | AQ | E. OKAMOTO, et al., Universal Personal Communications, XP-010315029, pages 921-924, "A PILOT SYMBOL ASSISTED COMPENSATION SCHEME OF FADING AND FREQUENCY OFFSET FOR 16QAM", October 5, 1998 | | | |
| PL | AR | J. K. CAVERS, IEEE Transactions on Vehicular Technology, vol. 40, no. 4, XP-000278280, pages 686-693, "AN ANALYSIS OF PILOT SYMBOL ASSISTED MODULATION FOR RAYLEIGH FADING CHANNELS", November 1, 1991 | | | |
| PL | AS | H. KONG, et al., IEEE Transactions on Vehicular Technology, vol. 47, no. 2, XP-002245847, pages 558-565, "ON CHANNEL ESTIMATION AND SEQUENCE DETECTION OF INTERLEAVED CODED SIGNALS OVER FREQUENCY NONSELECTIVE RAYLEIGH FADING CHANNELS", May 1998 | | | |
| PL | AT | C. II BANG, et al., IEEE Transactions on Consumer Electronics, vol. 41, no. 4, XP-000553491, pages 1138-1141, "AN ANALYSIS OF PILOT SYMBOL ASSISTED 16 QAM IN THE RAYLEIGH FADING CHANNEL", November 1, 1995 | | | |
| PL | AU | A. SHIBUTANI, et al., page 488, "MULTIPLE INTERLEAVING METHODS FOR THE W-CDMA SYSTEM", 1998 (with English translation) | | | |
| | AV | <input type="checkbox"/> Additional References sheet(s) attached | | | |
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| * | AO | 9-298519 | 11/18/97 | JAPAN | | | |
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| Examiner | <i>PL Levitan</i> | | | | Date Considered 04/12/04 | | |

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